

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/061699 A1

(51) International Patent Classification⁷: C12N 9/02, 15/52

(21) International Application Number:

PCT/NZ2004/000333

(22) International Filing Date:

22 December 2004 (22.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

530331

22 December 2003 (22.12.2003) NZ

(74) Agents: WILSON, Kathryn, S. et al.; Level 11, Price-waterhouseCoopers Centre, 119 Armagh Street, P.O. Box 2201, Christchurch (NZ).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): AGRE-SEARCH LIMITED [NZ/NZ]; East Street, Ruakura Campus, HAMILTON (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BRYAN, Gregory, Thomas [NZ/NZ]; 10 Nelson Street, Feilding (NZ). JOHNSON, Richard [GB/NZ]; 376B Scotts Road, RD4, Palmerston North (NZ). SCOTT, Barry [NZ/NZ]; Moonshine Valley Road, Aokautere, Palmerston North (NZ). YOUNG, Carolyn, A. [NZ/NZ]; 2500 Cleveland Road, Unit 403, Wooster, OH 44691 (US). TAPPER, Brian, Anthony [NZ/NZ]; 76 Slacks Road, Palmerston North (NZ). PARKER, Emily, Jane [NZ/NZ]; 49 Te Awe Awe Street, Palmerston North (NZ).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/061699 A1

(54) Title: INDOLE-DITERPENE BIOSYNTHESIS

(57) Abstract: The present invention relates to the biosynthesis of indole diterpene compounds. In particular, the invention relates to genes encoding enzymes considered responsible for the synthesis of lolitrems.